

GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.2550
ANSWERED ON 11.08.2025

PROTECTING ROOFTOP SOLAR POWER PLANTS FROM CYBER ATTACKS

2550 SHRI SAKET GOKHALE:

Will the Minister of **POWER** be pleased to state:

- (a) whether Government has devised any safeguards to protect individual rooftop solar generation power plants on houses, connected to the grid, from cyber attacks from malicious actors; and
- (b) whether Government regularly conducts third-party audits of the protection mechanism for safeguarding the power grid from cyber attacks, if so, the details thereof?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) : Central Electricity Authority is in the process of finalizing the Central Electricity Authority (Cyber Security in Power Sector) Regulations. These regulations will ensure that the control and operation of power system elements including solar inverters, as well as the exchange of related information, including real-time data, remain within national boundaries. Additionally, Ministry of Power has mandated that IT equipment and services, as may be identified in due course, to be used in the power sector shall be cleared through the Trusted Telecom Portal operated by National Security Council Secretariat (NSCS) prior to their supply, with effect from 1st January 2026.

(b) : 1. In power sector, periodic third-party cybersecurity audit has been advised vide the Central Electricity Authority (Cyber Security in Power Sector) Guidelines, 2021. As per the provisions laid down in the guidelines, power sector utilities have been advised to conduct annual audit of their Operational Technology (OT) infrastructure and biannual audit of their Information Technology (IT) infrastructure through auditors empaneled by the Indian Computer Emergency Response Team (CERT-In).

2. Furthermore, to enhance the effectiveness of these audits, Computer Security Incident Response Team (CSIRT-Power) has issued guidelines on “Scope of Cyber Security Audit in the Power Sector” defining the areas to be covered during such audits.

3. Additionally, CSIRT-Power has also issued a guiding template for cybersecurity auditor selection based on a Quality-cum-Cost-Based Selection (QCBS) approach to further improve audit quality.
